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UNITED STATES AIR FORCE  
Preparing Activity: AF

AF-01 57 20 (April 2006)  
CCAFS/PAFB  
Superseding AF-01355  
(January 2006)

References are NOT in agreement with UMRL dated 01 April 2006

Revised throughout - changes not indicated by CHG tags

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## SECTION 01 57 20

### ENVIRONMENTAL PROTECTION 04/06

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 NOTE: Brackets are used in the text to indicate  
 designer choices or locations where text must be  
 supplied by the designer.  
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## PART 1 GENERAL

### 1.1 SUMMARY

The requirements of this Section apply to, and are a component part of,  
 each section of the specifications.

### 1.2 REFERENCES

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 NOTE: This paragraph is used to list the  
 publications cited in the text of the guide  
 specification. The publications are referred to in  
 the text by basic designation only and listed in  
 this paragraph by organization, designation, date,  
 and title.

Use the Reference Wizard's Check Reference feature  
 when you add a RID outside of the Section's  
 Reference Article to automatically place the  
 reference in the Reference Article. Also use the  
 Reference Wizard's Check Reference feature to update  
 the issue dates.

References not used in the text will automatically  
 be deleted from this section of the project  
 specification when you choose to reconcile  
 references in the publish print process.

\*\*\*\*\*  
 The publications listed below form a part of this section to the extent  
 referenced:

45TH SPACE WING (SWI)

45 SW FSTR 10-2 Vol 2

(2005) Hazardous Material Emergency  
 Planning and Response

45 SW Lead Plan	(2005) Lead Management Plan
45 SW Plan 32-1052	(2005) Asbestos Management Plan
45 SWI 32-7001	(2003) Exterior Lighting Management

## AIR CONDITIONING AND REFRIGERATION INSTITUTE (ARI)

ARI 740	(1998) Standard for Refrigerant/Recovery Recycling Equipment
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## FLORIDA ADMINISTRATIVE CODE (FAC)

FAC Chapter 40C-2	(2002) Permitting of Consumptive Uses of Water
FAC Chapter 62-204	(2005) Air Pollution Control - General Provisions
FAC Chapter 62-210	(2005) Stationary Sources - General Requirements
FAC Chapter 62-730	(2002) Hazardous Waste
FAC Chapter 62-770	(2005) Petroleum Contamination Site Cleanup Criteria
FAC Chapter 62-777	(2005) Contaminant Cleanup Target Levels

## U.S. AIR FORCE (USAF)

AFI 32-7080	(1994) Pollution Prevention
AFI 32-7086	(2004) Hazardous Materials Management
OPLAN 19-14	(1998) Petroleum Products and Hazardous Management
OPLAN 19-16	(2005) PCB Item Control Plan
OPLAN 32-7080	(2004) Affirmative Procurement Plan
Title V Permit 0090005	CCAFS Air Operating Permit 0090005, Appendix TV-3, Title V Conditions
Title V Permit 0090021	Patrick AFB Air Operating Permit 0090021, Appendix TV-3, Title V Conditions

## U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

29 CFR 1926	(2002) Safety and Health Regulations for Construction
40 CFR 261	(2002) Identification and Listing of Hazardous Waste
40 CFR 262	(2002) Standards Applicable to Generators of Hazardous Waste

40 CFR 265	(2002) Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 761	(2002) Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions
UNITED STATES CODE (USC)	
EO 13101	(1998) Greening the Government Through Waste Prevention, recycling, and Federal Acquisition
EO 13148	(2002) Greening the Government Through Leadership in Environmental Management
FAR Part 23	(2002) Environment, Conservation, Occupational Safety, and Drug-Free Workplace
FAR Subpart 52.223-5	(2003) Pollution Prevention and Right-to-Know Information
FED-STD-313D	(1996) Material Safety Data, Transportation Data and Disposal Data
PUBLIC LAW 102-484	(1993) National Defense Authorization Act, Title III, Section 326
RCRA 6002	(1999) Guidance on Conducting Inspections of Federal Facilities

### 1.3 SUBMITTALS

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**NOTE: Review Submittal Description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control.**  
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The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES in sufficient detail to show full compliance with the specification:

#### SD-01 Preconstruction Submittals

Contractor shall submit documentation demonstrating completion of RCRA Hazardous Waste training to meet the requirements of 40 CFR 265.16 prior to generating any waste.

Contractor shall provide a list of all hazardous materials to be incorporated into the project including the Material Safety Data Sheet and the estimated quantities of those materials and a completed AF Form 3952 for each HAZMAT.

Forecast of Contractor's Hazardous Waste Generations form.

### Lead-Based Paint Compliance Plan.

The Contractor shall submit [Certificates of Completion for the Environmental Compliance Assessment and Training and Tracking System](#) (ECATTS) modules required for the type of project to be accomplished. These certificates must be submitted before the project begins and will be for all personnel required to complete training.

### SD-03 Product Data

Copies of all laboratory analyses must be provided to the Contracting Officer. Contractor shall provide [equipment description, serial number, and location](#). Analyses indicating less than 50 ppm are considered non-PCB containing equipment.

Contractors shall submit to the Contracting Officer a [report itemizing all AP approved items](#) used in the project.

Contractors shall submit to the Contracting Officer a [written justification for all items on the EPA CPG list that are used but not AP approved](#). Contractors shall obtain written approval from the Contracting Officer prior to use of items on the EPA CPG list that are not AP approved. Use of non-AP approved items without prior Contracting Officer approval may be replaced at the Contractor's expense.

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**NOTE: The following three paragraphs apply to Lead Based Paint. Delete if Lead Based Paint abatement is not identified.**  
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### SD-06 Test Reports

Contractor shall be responsible for sampling all wastes to determine whether they are hazardous or non-hazardous. [Laboratory analyses](#) shall be submitted. All laboratory analyses shall include the laboratory name, the EPA certification number, and the EPA approved method code used for the analysis.

Provide [sampling and laboratory analysis](#) of wastes generated by the Contractor and submit [analysis results](#).

If analysis results indicate the waste is a hazardous waste, Contractor shall submit [Records of all tests on hazardous wastes](#).

### SD-07 Certificates

Contractor shall provide data indicating actual monthly quantities of hazardous material used, stored, and hazardous waste generated. Contractor shall submit copies monthly to the Contracting Officer of signed [internal manifests](#) once the Contractor has delivered hazardous waste to the designated on-site Government storage facility.

### SD-11 Closeout Submittals

Contractor shall submit [Certification of completion](#) and required documentation for completion of all [environmental permits](#) prior to the final inspection.

Contractor shall complete, sign and submit Part 2 of the [Affirmative Procurement Certification form](#).

Should the Contractor HAZMAT requirements change during the contract performance period, the [HAZMAT requirement changes](#) shall be submitted to the Contracting Officer for approval

Contractor shall submit a [list of HAZMAT usage](#) to the HazMart Pharmacy for loading into/updating the 45 SW HAZMAT tracking system.

As part of the project completion requirements, the Contractor shall provide a [close out HAZMAT report](#) to the Contracting Officer.

Contractor shall submit to the Contracting Officer a copy of the close-out form for all hazardous waste accumulation sites operated by the Contractor.

#### 1.4 ENVIRONMENTAL REQUIREMENTS

##### 1.4.1 General Conditions

It is the Contractor's responsibility to ensure that all work to be accomplished will be in compliance with federal, state and local environmental regulations. Contractor shall perform work in strict accordance with all conditions specified in the environmental permits. The required permits shall be obtained prior to start of construction.

Environmental Permits and Certification of completion shall be prepared and submitted to the Contracting Officer where required. All requirements of the 45th Space Wing [OPLAN 19-14](#) (Waste Petroleum Products and Hazardous Waste Management Plan) shall be met.

Contractor shall ensure all notification required by any permits or regulations have been made to the applicable regulatory agency through 45 CES/CEV. Contractor shall acquire the approved permit application and Notice of Intent (NOI) for the FDEP/NPDES Construction permit a minimum of 48 hours prior to any ground breaking. Contractor shall provide a copy of the NOI and FDEP approval to 45 SW/CEV.

To reduce adverse impacts to threatened and endangered sea turtles from artificial lighting operated on 45th Space Wing properties, all exterior lighting proposed for this project must be designed and installed in accordance with the 45th Space Wing Instructions 32-7001 ([45 SWI 32-7001](#)), Exterior Lighting Management dated 1 April 03.

If any petroleum contaminated soil or underground storage tanks are discovered, work must be stopped and the Contracting Officer must be notified who will notify CEV. The Contractor shall coordinate their activities through CEV prior to demolishing facilities that have petroleum storage tanks in accordance with [FAC Chapter 62-770](#) and [FAC Chapter 62-777](#).

##### 1.4.2 Certification

Contractor shall provide [Certification of completion](#) and required

documentation for completion of all [environmental permits](#) prior to the final inspection.

#### 1.4.3 Training

The Contractor shall submit [Certificates of Completion for the Environmental Compliance Assessment and Training and Tracking System \(ECATTS\)](#) modules required for the type of project to be accomplished. These certificates must be submitted before the project begins and will be for all personnel required to complete training.

### 1.5 DEFINITIONS

#### 1.5.1 Consumer Commodity

Quantity/container purchased for normal household use.

#### 1.5.2 Environmental Manager

Contractor shall appoint in writing an Environmental POC for the project site. The Environmental Manager shall be directly responsible for coordinating Contractor compliance with Federal, State, local, and Base requirements. The Environmental POC shall, at a minimum, ensure compliance with Hazardous Waste Program requirements (including hazardous waste handling, storage, and disposal); ensure compliance with all environmental permits; ensure compliance with hazardous materials (storage, handling, reporting) requirements; and coordinate the remediation of regulated substances (lead, asbestos, PCB transformers, etc.). The person in this position must have adequate awareness training to accomplish the following duties; ensure proper stormwater sedimentation, erosion control and pollution prevention procedures are met; ensure wastes segregation and storage compatibility requirements are met; ensure all Contractor personnel are aware of Environmental POC; coordinate delivery and removal of waste containers; and maintain the required records and documentation, including environmental permit compliance.

#### 1.5.3 Generated Hazardous Waste

Generated hazardous waste means materials that, if abandoned or disposed of, may meet the definition of a hazardous waste. These waste streams would typically consist of material brought on site by the Contractor to execute work, but are not fully consumed during the course of construction.

Examples include but are not limited to, excess or waste thinners and solvents (i.e. methyl ethyl ketone, toluene, etc.), pesticides, and contaminated pesticide equipment rinse water.

#### 1.5.4 Hazardous Material (HAZMAT)

The term HAZMAT encompasses all material (including medical supply items) covered under the EPCRA TRI reporting requirements, the OSHA Hazard Communication Standard, all Class I and II Ozone Depleting Substances (ODS), which can reasonably be anticipated to generate a hazardous waste. Reference [FAR Part 23.301](#) definition in the latest version of [FED-STD-313D](#), Tables I & II. It does not include munitions or hazardous waste.

#### 1.5.5 Standard Use

Product (quantity) normally purchased to service specific equipment/procedure.



#### 1.5.6 Surface Discharge

The term "Surface Discharge" implies that the water is discharged with possible sheeting action and subsequent soil erosion may occur. Waters that are surface discharged may terminate in drainage ditches, storm sewers, creeks, and/or "waters of the United States" and would require a permit to discharge water from the governing agency.

#### 1.5.7 Wetlands

Wetlands means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, and bogs. Official determination of whether or not an area is classified as a wetland will be made by the Air Force Environmental office (45 CES/CEV) and relayed through the Contracting Officer.

#### 1.5.8 Air Pollution

Prior to construction of an air pollution source that requires a construction permit as [FAC Chapter 62-204](#) & [FAC Chapter 62-210](#), a construction permit must be obtained from FDEP. Contractor shall prepare the construction permit application and submit it to 45 CES/CEV for review and submittal to FDEP. Contractor shall comply with all provisions of the existing Air Operating [[CCAFS Title V Permit 0090005](#)] [[PAFB Title V Permit 0090021](#)] and TV 4. The Title V Appendices contains requirements for air pollution sources not specifically listed in the Title V Operating Permits. As an example, the permit condition requires that a construction permit be received from FDEP prior to construction of an air pollution source. Another example is the requirement to prevent the emissions of unconfined particulate matter from any emissions unit whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alternation, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions.

### 1.6 MATERIAL HANDLING

#### 1.6.1 Storage and Protection

Contractor shall be responsible for the storage and protection of all his materials, equipment, and wastes, whether incorporated into the job or not.

Hazardous Materials and Petroleum Product Containers shall be stored on an impervious surface on pallets and with proper containment in accordance with [OPLAN 19-14](#). Incompatible materials shall be segregated and have separate containment systems. No materials or wastes (including wash waters) shall be discharged onto land ditches, swales, depressions, ponds, culverts, curbs, inlets or to the storm sewers, sanitary sewers, etc. without prior approval from the Contracting Officer.

Small containers of fuel shall be:

- a. Maintained in metal lockers or structures and;
- b. Stored in Underwriters Laboratories, Factory Mutual, OSHA, or NFPA approved (listed) containers labeled 'Flammable - Keep Fire Away'

Flammables or any other volatile material shall not be stored or left overnight in any building, facility, or structure other than the locker. They must be removed at the end of each day and stored in an area designated by the Contracting Officer and the [CCAFS] [PAFB] Fire Prevention Section or removed from the installation.

Stored containers shall remain closed at all times while in storage. Leaking containers shall be immediately addressed by either pumping the contents of the container into another container or overpacking the container.

Flammable storage lockers or structures shall be located at least 50 feet from other buildings.

Wiping rags, drop cloths, paint brushes, and rollers shall be stored in covered metal containers at the end of each working day.

When floor finishes containing combustible or flammable liquids are used, all source of ignition will be eliminated and the area well ventilated.

#### 1.6.2 Spill Prevention, Control and Countermeasure (SPCC)

Contractor shall provide Spill Prevention Plan to Contracting Officer for dealing with potential spills from drums, cans, etc. The Spill Plan must also address portable equipment like generators, tanks, lighting, HVAC units, etc. If the Contractor does not have a Spill Prevention Plan, they shall use the base's plan located in the 45 SW FSTR 10-2 Vol 2.

#### 1.6.3 Contractor Procedures for Hazardous Material Authorization

Contractor shall comply with requirements of EO 13148, FAR Subpart 52.223-5 and procedures for Hazardous Material Authorization which shall be in accordance with AFI 32-7086 and AF Form 3952 (located at the end of this section).

Contractor is responsible for ensuring compliance with these requirements by his employees and subcontractors.

Contractors who supply their own hazardous material (HAZMAT) for use in the performance of their contracts, shall obtain authorization prior to bringing HAZMAT on to 45th Space Wing Installations in accordance with AFI 32-7086, Hazardous Materials Management. Contractors shall submit a HAZMAT Authorization Work Sheet, with the required supporting documentation, including a manufacturer specific Material Safety Data Sheet (MSDS) and estimated quantities for the work as required by Section 01 57 20 SUBMITTAL PROCEDURES to the Contracting Officer (CO).

Should Contractor HAZMAT requirements change during the contract performance period, the HAZMAT requirement changes shall be resubmitted as required by Section 01 33 00 SUBMITTAL PROCEDURES to the Contracting Officer for approval (as stated above). This procedure shall be completed prior to introducing a new (not previously identified HAZMAT) or increasing quantities of a previously identified HAZMAT, onto the installation.

All Ozone Depleting Substance (ODS) acquisitions and usage shall be obtained and tracked through the HAZMAT Pharmacy. All Class I ODS required for contract performance shall have Senior Acquisition Officer (SAO) approval (approved Air Force Form 3953) and an approved Air Force Form

3952, Chemical/Hazardous Material Authorization Request prior to bringing material on installation. Excess existing Class 1 ODS disposition shall be processed through the HazMart Pharmacy.

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**NOTE: See 45 SW Authorization/Tracking Exemption  
List Below For Material Not Requiring Reporting.**

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**45th SPACE WING HAZARDOUS MATERIAL AUTHORIZATION/TRACKING EXEMPTION LIST  
(March 2005)**

ITEM NAME	SIZE	EXCEPTIONS
Acrylic Latex Caulk w/Silicone	Consumer Commodity	N/A
Air Freshener	Consumer Commodity	Aerosols with Class 1 ODS Propellant
Anti-Seize Tape (Teflon Tape)	All	N/A
Automobile Wax	Consumer Commodity	N/A
Baking Soda	Consumer Commodity	N/A
Batteries, Dry Cell/Alkaline	AAA-D, 9V, 6V	N/A
Correction Fluid	Consumer Commodity	Containing 1,1,1 Trichloroethane
Detergents (Laundry/Dishwasher/etc.)	Consumer Commodity	Industrial Concentrations
Dish/Hand Soaps/Compounds	Consumer Commodity	N/A
Duct Board (Used to Construct Airhandling Ducts)	Standard Use	N/A
Dustmop Treatment Compound	Consumer Commodity	N/A
Eye Wash Additive	Consumer Commodity	N/A
Floor Finish	Consumer Commodity	Oil/Solvent Based
Floor Polish Remover	Consumer Commodity	N/A
Floor Sweeping Compound	Consumer Commodity	N/A
Floor Wax	Consumer Commodity	N/A
Flux	Standard Use	Acid Containing
Furniture Polish	Consumer Commodity	N/A
General Purpose Deodorant	Consumer Commodity	Aerosols with Class 1 ODS Propellant
Glass Cleaner (Windex/Glass Plus/etc.)	Consumer Commodity	Industrial Concentrations
Glazing Compound	Consumer Commodity	N/A
Glue Stick	Consumer Commodity	N/A
Insect Repellent (Off,etc.)	Consumer Commodity	Industrial Concentrations
Insecticide/Herbicide (Raid/Black Flag/Diazinon/etc.)	Consumer Commodity	Commercial Apps (Golf Course, etc.)
Joint Compound (For Sheetrock Work)	Consumer Commodity	N/A
Leak Detector (Soapy Water)	Consumer Commodity	N/A
Liquid Chlorine Bleach	Consumer Commodity	Greater Than 9% Concentration
Metal Polish	Consumer Commodity	Industrial Concentrations
Multi-Purpose Cleaner (409/Simple Green, etc.)	Consumer Commodity	N/A
Neatsfoot Oil	Consumer Commodity	N/A
Print Cartridges/Printer Ribbon	Consumer Commodity	N/A
Rug/Upholstery Cleaner	Consumer Commodity	Industrial Concentrations

**45th SPACE WING HAZARDOUS MATERIAL AUTHORIZATION/TRACKING EXEMPTION LIST  
(March 2005)**

ITEM NAME	SIZE	EXCEPTIONS
Shredder Oil	Standard Use	N/A
Soap (Toilet/Pumice/W/WO Lanolin/W Lotion)	Consumer Commodity	N/A
Stamp Pad Ink (All Colors)	Consumer Commodity	N/A
Superglue	Consumer Commodity	N/A
Talcum Powder	Consumer Commodity	Asbestos Containing
Technical Bees Wax	Consumer Commodity	N/A
Tire/Rubber Lubricant	Standard Use	N/A
Toilet/Porcelain Cleaner (Soft-Scrub/etc.)	Consumer Commodity	Acid Containing
Toner (Direct/Indirect/Kits/ Print Cartridges)	Standard Use	N/A
Urinal Cakes	Consumer Commodity	N/A
Ozzy Juice	Standard Use	For Use in Aqueous Parts Washer

1.6.4 Cleanup and Disposal

\*\*\*\*\*  
**NOTE: THE FOLLOWING PARAGRAPH IS TO BE USED FOR  
 CCAFS ONLY.**  
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Management and disposal of any materials or non-hazardous wastes and any cleanup of contaminated property shall be in accordance with federal, state, county regulations at no additional cost to the Government. Hazardous wastes shall be managed by the Contractor in accordance with **40 CFR 262** and FAC Chapter 62-730 at the Contractor's expense, and shall include the following at a minimum:

1. Management of one or more hazardous waste accumulation sites.
2. Provide portable fire extinguishers, eyewash stations and required signs for each hazardous waste accumulation site.
3. Provide appropriate Department of Transportation (DOT) containers for storing hazardous wastes.
4. Properly mark and label container.
5. Perform and document required weekly hazardous waste accumulation site inspections.
6. Provide spill equipment.
7. Provide drum handling equipment.
8. Provide sampling and laboratory analysis of wastes generated.
9. Submit analysis results to the Contracting Officer.
10. Request hazardous waste disposal services through the Contracting Officer for hazard determination.
11. Prepare internal manifest and deliver the drums of hazardous waste to the designated on-base storage facility within timeframes specified by the Government.

Locations of accumulation sites shall be approved by the Government prior to generating hazardous waste. Contractor shall provide enclosed, lockable storage for hazardous waste containers. The Prime Contractor shall be responsible for ensuring subcontractors are in compliance with all hazardous waste requirements.

[ Contractor shall be responsible for the off-site disposal of solid non-hazardous waste. Contractor shall assume all liabilities for improper disposal. Disposal of any liquid non-hazardous wastes to the CCAFS sewage treatment facilities must be approved by the Contracting Officer and coordinated with the Wastewater Treatment Plant.]

\*\*\*\*\*  
**NOTE: THE FOLLOWING PARAGRAPH IS TO BE USED FOR  
 PAFB ONLY.**  
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[ Disposal of any wastes or material to the Base sewage treatment system must be approved by the Contracting Officer in writing and coordinated with Base Environmental Office. Management and disposal of any materials or non-hazardous wastes and any cleanup of contaminated property shall be in accordance with federal, state, county regulations at no additional cost to the government. Hazardous wastes shall be managed by the Contractor in accordance with 40 CFR 262 and FAC Chapter 62-730 at the Contractors expense, and shall include the following at a minimum: management of one or more hazardous waste accumulation sites; provide portable fire extinguishers, eyewash stations and required signs for each hazardous waste accumulation site; provide appropriate Department of Transportation (DOT) containers for storing hazardous wastes; properly mark and label containers; perform and document required weekly hazardous waste accumulation site inspections; provide spill equipment; provide drum handling equipment; provide sampling and laboratory analysis of wastes generated; submit analysis results to the Contracting Officer; request hazardous waste disposal services through the Contracting Officer for hazard determination; prepare internal manifest and deliver the drums of hazardous waste to the designated on-base storage facility within timeframes specified by the Government. Locations of accumulation sites shall be approved by the Government prior to generating hazardous waste. Contractor shall provide enclosed, lockable storage for hazardous waste containers.]

[ At PAFB, Contractor shall be responsible for the off-site disposal of solid non-hazardous waste. Contractor shall assume all liabilities for improper disposal.]

\*\*\*\*\*  
**NOTE: THE FOLLOWING PARAGRAPH IS TO BE USED FOR  
 CCAFS and PAFB.**  
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The Prime Contractor shall be responsible for ensuring subcontractors are in compliance with all hazardous waste requirements.

#### 1.6.5 Fire and Chemical Spills

Contractor shall notify the Base Fire Department (Dial 911 from any base phone or [321-867-7911 from cellular phones on CCAFS] [321-494-7642 from cellular phones on PAFB]) in the event of any fire or release of any chemical into the environment, including air emissions and spills inside or outside of a building. Contractor shall comply with 45 SW FSTR 10-2 Vol 2 and also notify the Contracting Officer.

#### 1.7 HISTORICAL AND ARCHAEOLOGICAL RESOURCES

If known historical or archaeological resources exist within the

Contractor's work area, and have been designated on the contract drawings, Contractor shall install protection for these resources as shown on the drawings and shall be responsible for their preservation during the contract.

If the Contractor observes items that may have historical or archaeological value, such observation shall be reported immediately to the Contracting Officer so that the appropriate authorities may be notified and a determination can be made as to their significance and what, if any, special disposition of the finds should be made. Contractor shall cease all activities that may result in the destruction of the resources and shall prevent his employees from trespassing on, removing or otherwise damaging such resource. For the purpose of this clause, resources shall be defined as arrowheads, Indian pottery, bones (animal or human), and any man-made artifact which predates Air Force Occupation 45th Space Wing Property.

#### 1.8 ENDANGERED SPECIES

Threatened, endangered, and other protected species and/or their habitat may be impacted by the work. The following species that may be affected include, but are not limited to: Sea Turtles, Gopher Tortoise, Indigo Snake, Least Tern, Florida Scrub Jay and Southeastern Beach Mouse.

Impacts to protected species will be addressed in the appropriate National Environmental Protection Act (NEPA) documentation. If NEPA documentation has not been prepared/approved, Contractor must notify the CEV Environmental Office through the Contracting Officer immediately so that impacts to protected species may be properly addressed.

If the Contractor suspects the presence of any protected species, Contractor shall immediately notify the 45 CES/CEV through the Contracting Officer. Additionally, if any bird nests are observed in the work area, Contractor shall immediately notify 45 CES/CEV through the Contracting Officer.

Contractor shall minimize interference with, disturbance to, and damage to fish, wildlife, and plants including their habitat. Contractor shall be responsible for the protection of threatened and endangered animal and plant species including their habitat in accordance with Federal, State, Regional, and local laws and regulations.

#### 1.9 CONNECTION TO EXISTING WATER OR SEWER LINES

Contractor shall obtain written approval from the Contracting Officer a minimum of 14 calendar days prior to scheduling connection to existing water or sewer lines to ensure all applicable environmental permits are obtained prior to connection.

#### 1.10 HAZARDOUS WASTE

Contractor shall provide the Contracting Officer with documentation for completed RCRA hazardous waste training prior to generating any waste per 40 CFR 265.16. All individuals involved in generating waste must be properly trained. If any waste is determined to be hazardous, as defined in 40 CFR 261, the Contracting Officer must be notified immediately. All hazardous waste shall be managed IAW State and Federal regulations by the Contractor and shall be turned over to the Air Force for disposal under the Air Force's EPA identification number.

Contractor shall notify the Contracting Officer immediately if any contaminated soil, ground water or suspect debris is encountered during excavation, demolition or construction of the project.

At the pre-construction conference, Contractor shall provide the Contracting Officer with a [list of all hazardous materials](#) to be incorporated into the project including the Material Safety Data Sheet in accordance with DFARS 52.223-3, Hazardous Material Identification and Material Safety Data. Contractor shall submit a [list of HAZMAT usage](#) to the HazMart Pharmacy for loading into/updating the 45 SW HAZMAT tracking system. The list shall contain a maximum one time usage quantity, maximum storage quantities, storage location and Material Safety Data Sheets. Contractor shall make available to the Government any information required concerning materials, processes, or application to enable the Government to determine if the waste generated by the Contractor is hazardous. Contractor shall complete and provide to the Contracting Officer, at the pre-construction conference, a [Forecast of Contractor's Hazardous Waste Generations form](#). Contractor shall provide data indicating actual monthly quantities of hazardous material used, stored, and hazardous waste generated. Contractor shall submit copies of signed [internal manifests](#) to the Contracting Officer monthly.

As part of the project completion requirements, Contractor shall provide a [close out HAZMAT report](#) to the Contracting Officer.

#### 1.10.1 Asbestos

Asbestos Containing Material (ACM) may be hazardous and requires special handling and disposal procedures. If the Contractor suspects the presence of ACM not shown on the drawings or must disturb ACM which is not part of the contract, Contractor shall immediately inform the Contracting Officer. The Contracting Officer will determine whether removal of the questionable material is required and who will accomplish the removal. Contractor shall not disturb, remove, enclose, or otherwise cause a potential asbestos fiber release.

[ This project contains no known ACM. In the event ACM is found and must be removed, removal of ACM is normally accomplished by the Government through the use of a separate Asbestos Removal Contractor. However, should the Contracting Officer deem necessary, Contractor shall be tasked to perform ACM removal by issuing a change to the contract in accordance with the changes clause and all federal, state, local and Air Force requirements.]

[ ACM has been identified on the drawings in the contract area. Removal of ACM will be through the use of a separate Asbestos Removal Contractor. However, should the Contracting Officer deem necessary, Contractor shall be tasked to perform ACM removal by issuing change to the Contract in accordance with the changes clause and all federal, state, local and Air Force requirements.]

[ ACM has been identified in the contract work area. Removal of the ACM is included in the Contract as shown on the plans and in the specifications. Contractor shall comply with all Federal, State, Local Regulations and [45 SW Plan 32-1052](#) concerning the removal and disposal of asbestos containing materials and the protection of all personnel working in and around the worksite. All asbestos abatement Contractors and their employees must have current Florida Asbestos Abatement Contractor Licenses to perform the work. Florida does not have reciprocity with any other

state; therefore, no other license except for a current Florida license is acceptable. Workers must renew their licenses each year and the license must be current for the duration of the project.]

[ Contractor shall not proceed with asbestos abatement until: 1. 10 day notification has been completed to FDEP (if required): The notification must accurately reflect the proposed work, it must have accurate dates for the beginning and end of the project and it must be updated as needed to reflect actual schedules; 2. Contractor has an approved Asbestos Abatement Plan; [approval for CCAFS projects shall be provided by 45 CES/CEV] [approval for PAFB project shall be provided by 45 ADOS/SGGB (Bioenvironmental Engineering)]. Additionally, Contractor shall submit to the state of Florida disposal weight tickets (provided from the CCAFS landfill at the time of disposal) to prove that asbestos has been properly disposed.]

Contractor shall not use any materials containing asbestos and shall be liable to the Government for all costs incurred to clean up, handle, remove and dispose of any ACM resulting from Contractor's actions or non-actions that do not comply with the requirements of this section.

#### 1.10.2 Heavy Metals in Paint and Coatings

[ Lead-based paint has not been identified in the contract work area. If the Contractor suspects the presence of lead-based paint not shown on the drawings or must disturb lead-based paint which is not part of the contract, Contractor shall immediately inform the Contracting Officer. The Contracting Officer will determine whether removal of the questionable material is required and who will accomplish the removal.]

[ Lead-based paint has been identified in the contract work area. Lead-based paint removal can create potential health hazards for workers. All applicable provisions of standards and requirements listed in this specification and Occupational Safety and Health Administration requirements [29 CFR 1926.55](#), [29 CFR 1926.62](#), and [29 CFR 1926.1127](#) shall be observed by the Contractor. Contractor shall submit a [Lead-Based Paint Compliance Plan](#) to the Contracting Officer for approval by the Bio-environmental Engineer, 45SW ADOS/SGGB, Patrick AFB, FL 32925, in accordance with [29 CFR 1926.62](#) or [29 CFR 1926.1127](#) as applicable. Contractor's Lead-Based Paint Compliance Plan must be approved prior to starting work. All work shall comply with the [45 SW Lead Plan](#) and other references identified in this section.]

[ Contractor shall comply with all federal, state and local regulations concerning ambient air quality standard for lead in areas surrounding the lead paint removal operations. Removal of lead-based paint with abrasive blasting, high pressure water streams, power tools, etc. can produce emissions containing lead in excess of this standard. Air sampling for lead shall be conducted by the Contractor to ensure compliance with these and all other applicable standards. Environmental controls shall be established prior to any lead-based paint removal.]

[ Lead-based paint waste may be hazardous waste. All loose paint, paint chips, blast media and any other suspected contaminated soil residue shall be collected, containerized, and labeled. Wash and rinse water shall be containerized and sampled. Contractor shall obtain written authorization from the Contracting Officer prior to discharging process waters to sanitary sewer or grade. Wash and rinse water shall not be permitted to flow to surface waters or storm sewers. Containerized waste of all toxic



metals shall be tested utilizing the Toxic Characteristic Leaching Procedure. An independent testing laboratory shall perform the testing. If analysis results indicate the waste is a hazardous waste, Contractor shall manage the waste in accordance with paragraphs titled, "Cleanup and Disposal" and "Hazardous Waste" of this section. All waste shall be managed in accordance with [OPLAN 19-14](#). [Records of all tests on hazardous wastes](#) shall be provided to the Contracting Office.]

Contractor shall not use lead-based paint and shall be liable to the Government for all costs incurred by the Government from the Contractor's failure to comply with the requirements of the contract documents, including but not limited to costs for fines and penalties and the cost to clean up, handle, remove and dispose of any lead-based paint or lead-based paint residues.

Prior to performance of any work that will result in disturbance of lead containing materials, Contractor shall have a site specific health and safety plan that indicates measures the Contractor will take to prevent exposure to workers and to adjacent, unprotected personnel. Work performed under OSHA standards [29 CFR 1926.62](#) and [29 CFR 1926.1127](#) for lead and cadmium in construction, respectively, must be overseen by an industrial Hygienist certified by the American Industrial Hygiene Association.

Contractor shall be liable to the Government for all costs incurred by the Government from the Contractor's failure to comply with the requirements of the Contract documents, including but not limited to costs for fines and penalties and the cost to clean up, handle, remove, and dispose of any lead-based paint or lead-based paint residues.

#### 1.10.3 Ozone Depleting Chemical Limitation

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NOTE: In accordance with AFI 32-7086, Chapter 4, paragraph 4.4, the Air Force will not develop or procure any new weapon or facility systems scheduled to remain in the Air Force inventory beyond 01 January 2020 that require Class II ODS in their operations or maintenance. The Air Force will not modify any existing weapon or facility systems scheduled to remain in the Air Force inventory beyond 01 January 2020 in any manner that adds requirements for Class II ODS in their operations or maintenance. Any one of the three Air Force SAO approval authorities may grant an exception to these prohibitions. The SAO approval process for granting such an exception will be the same as described in paragraph 4.3.2 of this AFI.

\*\*\*\*\*

In accordance with the National Defense Authorization Act for Fiscal Year 1993, Title III, Section 326 ([PUBLIC LAW 102-484](#)), Contractor shall not make use of, nor provide to the Government, any chemical, solvent, material, or any system making use of materials, classified as a Class I Ozone Depleting Chemical (ODC). Class I ODC's include chlorofluorocarbons (CFC's -11, -12, -113, -114, -115, -13, -111, -112, -211, -213, -214, 215, 126 and -217), carbon tetrachloride, methyl chloroform, methyl bromide, HC-140A/Methyl Chloroform, HC-10/Carbon Tetrachloride, and Halons 1211, 1301, 1202, 2402, and 1011. Contractor shall also comply with the requirements identified in Section 608 of the "Clean Air Act".

Venting of ODCs into the atmosphere is prohibited. ODCs must be recovered and recycled. ODC recovery operations must be performed by trained technicians using EPA approved recovery equipment. ODCs must be recovered and recycled prior to excessing containing equipment. Excessed ODC equipment must be properly disposed of. All refrigerant leaks/releases, greater than 25 lbs must be reported to [45 CES/CEV for CCAFS projects] [to 45 CES/CEVC (Environmental Flight) for PAFB projects].

Contractors working with Class I ODC refrigerants shall comply with all requirements identified in this Section, paragraph entitled "Refrigerant Recovery", and Section 603 of the "Clean Air Act".

\*\*\*\*\*  
**NOTE: Include the following subpart only if**  
**refrigerant recovery is required.**  
 \*\*\*\*\*

#### 1.10.4 Refrigerant Recovery

Contact the Contracting Officer at least 5 days prior to demolition of existing AC equipment for notification of [CCAFS] [PAFB] HVAC shop for refrigerant recovery. The base HVAC shop will salvage the window type AC units and will recover the Freon from the central units.

Existing refrigerant (including refrigerant in sealed coils, tubing, etc.) shall be recovered from demolished AC equipment by the base HVAC shop and shall remain the property of the Government. The existing AC system shall be pumped down to near vacuum condition by the HVAC shop. Refrigerant recovery shall be performed in accordance with [ARI 740](#).

#### 1.10.5 Removal, Handling And Disposal Of Hazardous Material And Waste

All wastes generated by the Contractor shall be managed in accordance with all federal, state, local and installation regulations and directives. Contractor shall be responsible for sampling all potentially hazardous wastes to determine whether they are hazardous or non-hazardous. Waste samples shall be submitted to the Government and laboratory analyses shall be provided by the Government and submitted to the Contracting Officer.

Contractor shall provide all required waste containers. All containers utilized for the management of wastes must be new and meet the Department of Transportation's performance oriented packaging requirements and be compatible with the wastes. All containers must be labeled to accurately reflect the contents. All other requirements identified in Appendix F of [OPLAN 19-14](#) must be met.

Contractor shall transport any waste that is determined hazardous to Government Hazardous Waste Storage Facility as directed by the Government. Facility number and location will be provided upon waste classification. Contractor shall be responsible for the off-site disposal of non-hazardous waste. Contractor will assume all liabilities for improper disposal. Disposal of any liquid non-hazardous wastes to the CCAFS sewage treatment facilities must be approved by the Contracting Officer and coordinated with the Base Wastewater Shop.

Non-salvageable material and debris shall be removed from work areas and disposed of daily. [Contractor may use Cape Canaveral Air Force Station (CCAFS) landfill for disposal of CCAFS Construction and Demolition (C&D)

debris. For quantities larger than 90 tons/day for C&D debris, the disposal should be coordinated with 45 CES/CEV and landfill operators through the Contracting Officer to allow for planning for the expected number of trucks per day to avoid operational issues.]

[ Contractor shall use an off-site facility permitted by the State of Florida to accept the waste for disposal of PAFB Construction and Demolition (C&D) debris. Contractor shall submit a tip sheet from the landfill for each load.]

Use of CCAFS landfill is mandatory for all CCAFS and PAFB asbestos disposal per the conditions of the FDEP permits. For quantities larger than 10 cubic yards/day, the disposal should be coordinated with 45 CES/CEV and landfill operators through the Contracting Officer to allow for planning for the expected number to trucks per day to avoid operational issues.

For all C&D debris going to the CCAFS landfill, the Contractor is responsible for accurately completing and coordinating the attached landfill use approval forms. An authorized Air Force Contract Monitor or a CE Representative must sign these forms. The authorization form must accompany the first vehicle working on the project number and contract number at the landfill entrance. As soon as the number of loads is exceeded, the Contract Monitor or Civil Engineering Representative must re-authorize the form.

The CCAFS Landfill is a State permitted Construction and Demolition (C&D) debris Landfill. Only refuse directly associated with construction or demolition activities will be accepted.

The hours of operation for the CCAFS landfill are 0730-1130 and 1215-1500 Monday through Friday for C&D debris. Asbestos waste is accepted from 0730-1130 and 1215-1400 only on Tuesdays and Thursdays with 24 hour notice to the landfill operator through the Contracting Officer. The landfill is closed on weekends and holidays. Landfill available days and hours are subjected to change. Contact the landfill operator through the Contracting Officer to arrange for delivery. Vehicles must check in with attendant and be inspected prior to disposal of any material(s).

For the CCAFS landfill, concrete shall be separated from other C&D debris since concrete is disposed of at the landfill in separate cells. Concrete must be no larger than 36 inches in any direction with no more than 18 inches of protruding rebar.

Road demolition debris such as asphalt millings and chunks and lime rock are accepted by the CCAFS landfill subject to the quantity limitations of the FDEP permits. Contact Comprehensive Health Services (CHS) Environmental through the Contracting Officer for guidance.

Note that the CCAFS Landfill will **not** accept the items listed below. Disposal of these items will be coordinated with the referenced organization. Details on organizational contacts and disposal procedures will be provided by the Government at the preconstruction meeting.

- a. Polychlorinated biphenyls (PCBs); contact 45 CES/CEV through the Contracting Officer to arrange for drop off at Facility 44200.
- b. Garbage items of any kind; Use dumpsters or Brevard County Landfill.
- c. Paper, this includes, but is not limited to, office paper, newspapers, and magazines; contact Recycling Office at PAFB

- through the Contracting Officer to arrange for delivery.
- d. Cardboard of any type; contact Recycling Office at PAFB through the Contracting Officer to arrange for delivery.
  - e. Cans or Bottles; contact Recycling Office at PAFB through the Contracting Officer to arrange for delivery.
  - f. Tires; contact CHS Environmental through the Contracting Officer for disposal guidance.
  - g. Pressure Treated/Painted Wood or Lumber; use Brevard Co. Landfill.
  - h. Recyclable wood, broken pallets, no bolts, not painted or treated, use appropriate CCAFS "wood recycling only" marked dumpsters.
  - i. Plastic Sheeting; use Brevard Co. Landfill.
  - j. Tarps; use Brevard Co. Landfill.
  - k. Fluorescent Light Bulbs; contact 45 CES/CEV through the Contracting Officer to arrange drop off at Building 55118.
  - l. Any metal that can be salvaged; contact DRMO Yard through the Contracting Officer to arrange for drop off.
  - m. Wet Paint Cans; contact CHS Environmental through the Contracting Officer for disposal guidance.
  - n. Steel cable; contact DRMO through the Contracting Officer for salvage instructions.
  - o. Good Pallets; use DRMO or SGS Supply, Facility 1621.
  - p. Brush (land clearing) or Yard Trash; use Brevard Co. Landfill.
  - q. Sludge; contact CHS Environmental through the Contracting Officer for sampling and disposal.
  - r. Batteries; they should be double-wrapped or the terminals isolated with tape. Contact DRMO through the Contracting Officer for delivery of magnesium, silver, carbon zinc, and lead acid batteries. Contact 45 CES/CEV through the Contracting Officer to arrange for delivery of nickel cadmium, lithium, and mercury batteries at Facility 55118.
  - s. Oil Filters; contact Recycling Office at PAFB to arrange for drop off.
  - t. Liquid Waste of any kind; contact CHS Environmental through the Contracting Officer for disposal guidance.
  - u. Aerosol Cans; contact 45 CES/CEV through the Contracting Officer to arrange for instruction and drop off at Facility 55118.

During the construction activities, Contractor shall be responsible for the management of the waste in accordance with [OPLAN 19-14](#) and will coordinate with 45 CES/CEV the establishment of hazardous waste accumulation sites as needed.

All spills of hazardous material shall be managed in accordance with [45 SW FSTR 10-2 Vol 2](#), reported immediately and immediate attempts shall be made to limit the spread of such material. Call 911 from any base phone or [(321-867-7911 from cellular phones on CCAFS)] [(321-494-7642 from cellular phones on PAFB)] and the Contracting Officer to report spills, giving name, location, injuries, what and how much spilled, source, and current status. Consult MSDS sheets prior to starting work for exposures and safe handling procedures, personal protective equipment requirements, and first aid procedures.

\*\*\*\*\*  
**NOTE: Include the following subpart only if  
 fluorescent lamp disposal is required.**  
 \*\*\*\*\*

## [1.10.5.1 Disposal of Fluorescent Lamps

Contractor shall coordinate the management and disposal of fluorescent lamps, silent wall switches containing mercury and ballasts containing PCB with the 45 CES/CEV and in accordance with federal and state laws and Air Force regulations, and policies including OPLAN 19-16, PCB Item Control Plan. The lamps and switches shall be managed as universal wastes. Contractor shall package fluorescent lamps, bag switches and collect ballasts and deliver them to the designated on-base storage facility at no additional cost to the Government in accordance with established base procedures as follows:

- a. Lamps must not be taped or fastened to each other and should be packaged to avoid breakage.
- b. Lamps must be packaged in cardboard boxes specifically designed to ship fluorescent lamps (packages similar to new lights without the internal cardboard filler).
- c. Lamps and cardboard containers must be kept dry.
- d. All containers must be taped closed on all sides.
- e. Containers must be marked with the number of lamps in the container and the length of the lamps.
- f. Affix a universal waste label and place the following words on the label, "Spent Mercury-Containing Lamps for Recycling (DOT Non-Regulated) "
- g. Each switch must be double-bagged and sealed.
- h. The ballasts containing PCB shall be collected by the Contractor in a new container meeting the Department of Transportation's performance oriented packaging requirements (UN1A2). The container must be properly marked with a PCB label.

These packaged lamps and bagged switches must be delivered to the universal waste site as directed by the Government. Contractor shall contact 45 CES/CEV through the Contracting Officer to make arrangements for delivery. [At PAFB contact Environmental office at 321-494-7288 for instructions.]

]

\*\*\*\*\*  
**NOTE: Include the following subpart only if  
 electrical pothead disposal is required.**  
 \*\*\*\*\*

## 1.10.6 Removal and Disposal Of Electrical Potheads

All potheads to be removed shall be transported to 45 CES/CEV Facility 44200 on CCAFS. Coordinate transport with the Contracting Officer. Prior to transport, each pothead shall be completely inspected to ensure insulating compound is not leaking and packaged on a wood pallet. If there is any evidence of leaking, the pothead must be double-bagged in plastic prior to being placed on the pallet. Leaking items that are not properly wrapped will be rejected at Facility 44200 on CCAFS unless immediately corrected by the Contractor.

\*\*\*\*\*  
**NOTE: Include the following subpart only if PCB  
 containing equipment requires removal.**  
 \*\*\*\*\*

#### 1.10.7 Removal and Transportation of Electrical Equipment That May Contain PCB

Contractor shall manage all PCB in accordance with [OPLAN 19-16](#), PCB Item Control Plan. Contractor is responsible for determining the PCB concentration in accordance with [40 CFR 761](#) of dielectric fluid contained in electrical equipment effected by the contract. This determination can be made by referencing the current Air Force PCB database (maintained by 45 CES/CEV) and/or by sampling and testing. Note: Any item without a current (within six months) analysis or manufacture certification on file shall be sampled by Contractor. Contractor shall coordinate with the Contracting Officer and CHS to provide samples to CHS for testing. Copies of all [laboratory analyses](#) shall be provided to the Contracting Officer. Contractor shall provide [equipment description, serial number, and location](#). Analyses indicating less than 50 ppm are considered non-PCB containing equipment. Analyses indicating greater than or equal to 50 ppm but less than 500 ppm are considered PCB-contaminated equipment. Analyses greater than or equal to 500 ppm are considered to be PCB equipment.

Equipment containing PCBs: The Contracting Officer shall be notified immediately after a piece of equipment is determined to contain PCBs (greater than the 50 ppm regulatory limit). This equipment shall be delivered to Facility 44200 on CCAFS. Contractor is responsible for the safe transportation of this equipment to Facility 44200 on CCAFS. Contractor is also responsible for off-loading this equipment into the facility. The Contracting Officer will make the necessary arrangements with the 45 CES/CEV to gain access into this secured facility and will provide 45 CES/CEV with a copy of the [laboratory analyses](#). If the equipment has any leaks, the Contractor is responsible for repairing these prior to delivery to Facility 44200. No leaking equipment will be accepted into this facility. If a leak is severe and the item is small enough, Contractor shall over pack the electrical equipment into a container meeting the Department of Transportation's performance oriented packaging requirements (UN1A2). If this is not a viable alternative, Contractor shall be responsible for draining the dielectric fluid from the item. All liquids must be placed in proper DOT containers (UN1A1). Contractor shall provide secondary containment for the equipment when the oil is removed. All containers shall be marked with a "Contains PCBs" label and the serial number of the equipment the oil was removed from should be noted on the top of the container(s). If any oil is spilled onto the ground, immediately notify the Contracting Officer and dial 911 from any base phone or [(321-867-7911 from cellular phones on CCAFS)] [(321-494-7642 from cellular phones on PAFB)] so that emergency response personnel can be dispatched. Contractor shall make every effort to contain the release while ensuring worker safety.

#### 1.10.8 Removal, Transportation and Disposal of Non PCB Recorded Electrical Equipment

All electrical equipment determined to be non-PCB shall be transported to the Cape Canaveral AFS DRMO by the Contractor after all arrangements have been made by the Contracting Officer. The Contracting Officer will provide the necessary DD form 1348-1 for turn-in to DRMO. Contractor shall include a laboratory analysis less than six months old. DRMO must be contacted at least 48 hours prior to any items being delivered. DRMO will accept this equipment only if it is free of leaks. If the equipment has any leaks, Contractor is responsible for repairing these prior to requesting turn-in to DRMO. All leaks are to be repaired immediately after they are discovered. All oil filled cable shall be cut in [ten foot](#) lengths,

palletized, and sealed at both ends to prevent leakage prior to turn-in. Cable ends shall be sealed using approved cable end sealing caps. If a leak is severe and the item is small enough, Contractor shall over pack the electrical equipment into a container meeting the Department of Transportation's performance oriented packaging requirements (UN1A2). If this is not a viable alternative, Contractor shall be responsible for draining the dielectric fluid from the item. All liquids must be placed in proper DOT containers (UN1A1). Contractor shall provide secondary containment for the equipment when the oil is removed. All containers shall be marked with a "Non-PCB" label and the serial number of the equipment the oil was removed from should be noted on the top of the container(s). If any oil is spilled onto the ground, immediately notify the Contracting Officer 911 so that emergency response personnel can be dispatched. Contractor shall make every effort to contain the release while ensuring worker safety. Contractor assumes full responsibility if DRMO refuses the equipment because of leaks.

#### 1.11 LAND RESOURCES

Contractor shall confine all activities to areas defined by the drawings and specifications. Prior to the beginning of any construction, Contractor shall identify any land resources to be preserved within the work area. Except in areas indicated on the drawings or specified to be cleared, Contractor shall not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil, and land forms without approval. No ropes, cables, or guys shall be fastened to or attached to any trees for anchorage unless specifically authorized. Contractor shall provide effective protection for land and vegetation resources at all times as defined in the following subparagraphs. Contractor shall remove stone, soil, or other materials displaced into uncleared areas.

##### 1.11.1 Storm Water Control Declaration

- [ It has been determined that this project involves the disturbance, breakage and/or movement of earth on land at a construction site encompassing a total aggregate site area of [\_\_\_\_\_] acre[s].]
- [ This construction site area is less than one acre and does not require coverage under a National Pollutant Discharge Elimination System (NPDES) storm water construction permit.]
- [ This construction site area involves the repair and maintenance of a facility that does not change the original line and grade, hydraulic capacity or purpose of the facility site and does not require coverage under a National Pollutant Discharge Elimination System (NPDES) storm water construction permit.]

Contractor shall be responsible to monitor site activities for the potential to generate or contaminate storm water. Best management and pollution prevention practices shall be implemented during project construction, as applicable to the size and type of project. If during construction it becomes necessary to disturb more than 1 acre of land, Contractor shall immediately notify the Contracting Officer and file the necessary application and fees for NPDES permit coverage. No further land clearing activity shall be permitted until the Contracting Officer has proof that the Notice of Intent (NOI) has been filed and the necessary waiting period has been sustained.

## 1.11.2 Work Area Limits

Prior to commencing construction activities, Contractor shall mark the areas that need not be disturbed under this contract. Isolated areas within the general work area, which are not to be disturbed, shall be marked or fenced. Monuments and markers shall be protected before construction operations commence. Where construction operations are to be conducted during darkness, any markers shall be visible in the dark. Contractor's personnel shall be knowledgeable of the purpose for marking and/or protecting particular objects.

## 1.11.3 Erosion and Sediment Controls

\*\*\*\*\*  
**NOTE: The paragraph below must be edited to reflect the specific requirements of the project. In place of the blank brackets, enter the name of the Installation, Facility, or Project Office. If the National or State Pollutant Discharge Elimination System Permit for Storm Water Discharges from Construction Sites with over 1 acre of Land Disturbance is not required, but the project site is covered under an existing NPDES Industrial Storm Water Permit, the requirements of that permit will be added to this paragraph, shown on the drawing, and/or attached to this specification, include Section 01 57 23.00 10 STORM WATER POLLUTION PREVENTION MEASURES if SWPPP is required.**  
 \*\*\*\*\*

Contractor shall be responsible for providing erosion and sediment control measures in accordance with Federal, State, and local laws and regulations. The erosion and sediment controls selected and maintained by the Contractor shall be such that water quality standards are not violated as a result of the Contractor's construction activities. The area of bare soil exposed at any one time by construction operations should be kept to a minimum. Contractor shall construct or install temporary and permanent erosion and sediment control best management practices (BMPs) [as indicated on the drawings] [as specified in Section 01 57 23 STORM WATER POLLUTION PREVENTION MEASURES]. BMPs may include, but are not limited to, vegetation cover, stream bank stabilization, slope stabilization, silt fences, construction of terraces, interceptor channels, sediment traps, inlet and outfall protection, diversion channels, and sedimentation basins. [Contractor's best management practices shall also be in accordance with the [\_\_\_\_\_] National Pollutant Discharge Elimination System (NPDES) Storm Water Pollution Prevention Plan (SWPPP) which may be reviewed at the [CCAFS] [PAFB] Environmental Office.] [Any modifications made to the storm water pollution prevention measures for facilities or activities covered by a SWPPP will have those modifications noted (red-lined) within 24 hours on the SWPPP document kept at the site.] Any temporary measures shall be removed after the area has been stabilized.

Guidelines and training for completion of a NPDES permit and required inspections are provided at  
<http://www.dep.state.fl.us/water/nonpoint/erosion.htm>.

## 1.11.4 Construction Dewatering

Contractor shall discharge dewatering effluent to an area that will promote



percolation to the surficial aquifer. Dewatering effluent may not be discharged to surface water. Contractor shall perform all dewatering in accordance with **FAC Chapter 40C-2**. When dewatering manholes, if water in the manholes appears to be storm/groundwater that has infiltrated in, then discharge to grade at the site. If water in the manhole has obvious contamination (e.g., a visible sheen) then containerize this water and pump the remainder to grade. Do not pump water into permitted storm water retention ponds or systems, or canals, ditches, or other surface waters. Water from the manholes cannot be discharged to the Wastewater Treatment Facility (this is not a permitted activity).

It is the Contractors responsibility to be familiar with St. Johns River Water Management District (SJRWMD) criteria regarding Consumptive User Permits (CUP) for dewatering operations. It shall be the Contractors responsibility to obtain a SJRWMD CUP for this project, if required.

#### 1.11.5 Contractor Facilities and Work Areas

Contractor's field offices, staging areas, stockpile storage, and temporary buildings shall be placed in areas designated on the drawings or as directed by the Contracting Officer. Temporary movement or relocation of Contractor facilities shall be made only when approved. Erosion and sediment controls shall be provided for on-site borrow and spoil areas to prevent sediment from entering nearby waters or leaving the construction site. Temporary excavation and embankments shall be controlled to protect adjacent areas.

#### 1.11.6 Wetlands

\*\*\*\*\*  
**NOTE: All wetlands on the site or adjacent to the site must be identified on the drawings and this paragraph edited accordingly. If the wetlands on site must be disturbed, the Designer is responsible for the coordination with the regulatory agencies during design for identification of Section 404 of the Clean Water Act permits whether the permit is an Individual, Nationwide, Regional, State, or Local 404 or similar permit. The Designer must coordinate any mitigation requirements for the project. If no wetlands are onsite or adjacent to the site, delete this paragraph in its entirety. Otherwise, the first sentence should normally remain intact. This will require the Contractor to be cognizant of the responsibility to protect wetlands regardless of whether they are identified on drawings or in the event site conditions have changed since design.**  
 \*\*\*\*\*

Contractor shall not enter, disturb, destroy, or allow discharge of contaminants into any wetlands[.] [except as authorized herein.] Contractor shall be responsible for the protection of wetlands shown on the drawings as required by the contract documents and the applicable environmental permits. Authorization to enter specific wetlands identified shall not relieve the Contractor from any obligation to protect other wetlands within, adjacent to, or in the vicinity of the construction site and associated boundaries. Contractor shall install protection for these resources as shown on the contract drawings and shall be responsible for their preservation during the contract.

## PART 2 PRODUCTS

\*\*\*\*\*  
 NOTE: It is the responsibility of the designer to be aware of current EPA requirements for Affirmative Procurement and to determine the suitability of an EPA designated item in the work. Level of competition, delivery time, performance requirements and price should all be considered in making the determination.  
 \*\*\*\*\*

## 2.1 POLLUTION PREVENTION/AFFIRMATIVE PROCUREMENT

Contractor and all Subcontractors involved in this project shall comply with Air Force Affirmative Procurement (AP) requirements as described in but not limited to AFI 32-7080 and 45 SW OPLAN 32-7080. Affirmative Procurement is the purchase of environmentally friendly products and services (e.g., products made from recycled or recovered materials). Federal agencies, their Contractors and Subcontractors are required to maximize the purchase of materials on the list of "EPA Designated Guideline Items" with the minimum recycled or recovered materials content whenever practicable according to RCRA 6002, EO 13101 (<http://www.ofee.gov/eo/13101.htm>) and EO 13148. The list includes, but is not limited to:

CONSTRUCTION PRODUCTS

Structural fiberboard and laminated paperboard  
 Railroad grade crossing surfaces  
 Flowable fill  
 Hydraulic mulch (paper or wood based)  
 Cement and concrete materials containing ground granulated blast furnace slag and coal fly ash  
 Parking stops  
 Shower/restroom dividers  
 Floor tiles  
 Steel  
 Patio blocks  
 Latex paint  
 Carpet  
 Channelizers  
 Cement and concrete  
 Building Insulation

LANDSCAPING PRODUCTS

Lawn and garden edging  
 Hydraulic mulch  
 Plastic lumber  
 Park and recreation products  
 Park benches and picnic tables

Detailed information on EPA AP approved products and manufacturers providing these products is available at [www.epa.gov/cpg/products.htm](http://www.epa.gov/cpg/products.htm). Contractors shall maximize the purchase of AP approved items; that is, items that meet the minimum recycled or recovered material content guideline.

### 2.1.1.1 Affirmative Procurement Certification Form

Contractor shall provide the Contracting Officer with a [report itemizing all AP approved items](#) used in the project as a closeout submittal upon project completion. Contractors shall also provide to the Contracting Officer a [written justification for all items on the EPA CPG list that are used but not AP approved](#).

Contractor shall complete, sign and submit part 2 of the [Affirmative Procurement Certification form](#). The Affirmative Procurement Certification form will be provided by the Contracting Officer.

## PART 3 EXECUTION

### 3.1 AF FORM 3952



**CHEMICAL/HAZARDOUS MATERIAL REQUEST AUTHORIZATION**  
**PART I - MATERIAL REQUEST**

1 TYPE OF REQUEST \_\_\_\_\_ 2 PROCESS CODE \_\_\_\_\_

**SECTION I. REQUESTER INFORMATION**

3 COMMAND/ORGANIZATION/OFFICE SYMBOL \_\_\_\_\_ 4 WORK CENTER TITLE \_\_\_\_\_

**SECTION II. MATERIAL INFORMATION**

5 SUPPLY ACCOUNT CODE(S) \_\_\_\_\_ 6 BUILDING NUMBER \_\_\_\_\_ 7 LOCATION (*Be specific*) \_\_\_\_\_

8 MATERIAL NAME \_\_\_\_\_ 9 NSN/LSN \_\_\_\_\_ 10 UNIT OF ISSUE \_\_\_\_\_

11 MATERIAL SPECIFICATION \_\_\_\_\_ 12 DRAW AMOUNT \_\_\_\_\_ 13 DRAW FREQUENCY \_\_\_\_\_

14 SOLE SOURCE MANUFACTURER NAME/CAGE \_\_\_\_\_ 15 SOLE SOURCE PART NUMBER/TRADE NAME \_\_\_\_\_

**SECTION III. REQUIRING DOCUMENT(S)**

16a Document# /16b Paragraph# /16c Page# /16d Rev/Chng# /16e Rev/Chng Date \_\_\_\_\_

**SECTION IV. PROCESS INFORMATION**

17 IS THIS REQUEST FOR A NEW WORKLOAD OR PROCESS IN THIS SHOP? \_\_\_\_YES \_\_\_\_NO

18 TASK (*Fully describe work activity and process in which this material is used.*) \_\_\_\_\_

19 Amount of Material Used per Task/20 Frequency of Task/21 Duration of Task \_\_\_\_\_

22 DESCRIBE ANY ENGINEERING CONTROLS IN USE DURING PROCESS (*such as exhaust/ventilation systems, enclosures, covered tanks, cooling coils, etc.*) \_\_\_\_\_

23 INDICATE ANY PERSONAL PROTECTIVE EQUIPMENT (PPE) CURRENTLY BEING USED IN CONJUNCTION WITH THIS GENERATED \_\_\_\_\_

24 DESCRIBE THE METHOD OF DISPOSAL FOR THE WASTE THAT IS GENERATED \_\_\_\_\_

**SECTION V. REMARKS**

25 PROVIDE ADDITIONAL INFORMATION \_\_\_\_\_

**SECTION VI. CERTIFICATION**

26a REQUESTER'S NAME/ORGN SYMBOL/TELEPHONE NO. \_\_\_\_\_

26b SIGNATURE "I certify material will be used as stated above." \_\_\_\_\_ 26c DATE \_\_\_\_\_

27a CERTIFYING OFFICIAL'S NAME/ORGN SYMBOL/TELEPHONE NO. \_\_\_\_\_

27b SIGNATURE "I certify material is required as stated above." \_\_\_\_\_ 27c DATE \_\_\_\_\_

AF FORM 3952, AUG 97 (EF-V2)

**CHEMICAL/HAZARDOUS MATERIAL REQUEST AUTHORIZATION**  
**PART II - MATERIAL AUTHORIZATION**

☐ AUTHORIZED      ☐ AUTHORIZED WITH CONDITION      ☐ NOT AUTHORIZED

For information on specific health hazards or precautions for use, consult the manufacturer's MATERIAL SAFETY DATA SHEET (MSDS) or your BIOENVIRONMENTAL ENGINEERING REVIEWER.

BIOENVIRONMENTAL ENGINEERING REVIEWER'S NAME, TITLE, ORGANIZATION OFFICE SYMBOL, AND TELEPHONE NUMBER      SIGNATURE      DATE

**SECTION II. OCCUPATIONAL SAFETY REVIEW (To be filled in by the Safety Office )**

☐ AUTHORIZED      ☐ AUTHORIZED WITH CONDITION      ☐ NOT AUTHORIZED

REMARKS

SAFETY OFFICE REVIEWER'S NAME, TITLE, ORGANIZATION OFFICE SYMBOL, AND TELEPHONE NUMBER      SIGNATURE      DATE

**SECTION III. ENVIRONMENTAL MANAGEMENT REVIEW**  
**(To be filled in by Environmental Management)**

☐ AUTHORIZED      ☐ AUTHORIZED WITH CONDITION      ☐ NOT AUTHORIZED

ODS APPROVAL NUMBER \_\_\_\_\_

REMARKS

ENVIRONMENTAL REVIEWER'S NAME, TITLE, ORGANIZATION OFFICE SYMBOL, AND TELEPHONE NUMBER      SIGNATURE      DATE

**ANY changes to the conditions or process stated on the AF Form 3952, Part I invalidate this authorization. Notify the HAZMART of any changes or resubmit your AF Form 3952. The information on this form is superseded by the next Authorized User List (AUL) provided by the HAZMART. This authorization is also condition on applicable Environmental, Occupational Health, and Safety requirements (if any).**

AF FORM 3952, AUG 97 (REVERSE) (EF-2)

CAPE CANAVERAL AIR FORCE STATION (CAAFS)  
**CONSTRUCTION AND DEMOLITION DEBRIS\***  
**LANDFILL DISPOSAL VERIFICATION FORM**

Contract Title:

Contract Number:

Contractor's Name:

Contractor's Phone #:

Subcontractor's Name (if applicable):

Sub's Phone#:

Contract Monitor's Name & Mail Code:

Contract Monitor's Phone Number:

Type of Material/Debris:

Facility Number:

Asbestos analysis required?

Yes \_\_\_\_\_ No \_\_\_\_\_

(if yes, attach copy of analysis)

PCB, lead or other metals analysis required?

Yes \_\_\_\_\_ No \_\_\_\_\_

(if yes, attach copy of analysis)

Estimated Loads: \_\_\_\_\_

Estimated Dates: \_\_\_\_\_

Excess Load Verification/Approval

Yes \_\_\_\_\_ No \_\_\_\_\_

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Signature (Contract Monitor)

Date

**\*Definition of Construction and Demolition debris** - materials generally considered to be not water soluble and non-hazardous in nature. Including but not limited to steel, glass, brick, concrete, asphalt roofing material, pipe, gypsum wallboard, and lumber from the construction or destruction of a structure, part of a construction or demolition project or from the renovation of a structure. The term includes rocks, soils, tree remains, trees and other vegetative mater, which normally results from land clearing or land development operations for a construction project. Mixing of construction and demolition debris with other type of solid waste including materials which is not from the actual construction or destruction of a structure, will cause it to be classified as other than construction and demolition debris and therefore is not acceptable in the CCAFS landfill.

-- End of Section --